SIXPENCE

OCTOBER, 1944

AMATEUR RADIO

THE
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OF
AUSTRALIA



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AMATEUR-RADIO

INCORPORATING THE N.S.W. DIVISIONAL BULLETIN

Vol. 12. No. 10

October, 1944.

AMATUR T ST QUIPMIT REQUIREMENTS

C ARL S C. QUIN ... VK3 TO

As promised in last month's issue a demonstration of the apparatus described was given in the Victorian) ivisions Rooms at the August Meeting, and most of those present agreed to the need of such a bridge and the others were definitely interested, ouite an interesting discussion took place.

On page two is the circuit diagram of the bridge with slight modification from the original. Pollowing also is a table for the calibration of the 2500 ohm power factor correction variable resistor in series with the 1 mfd standard (at 50 c/s).

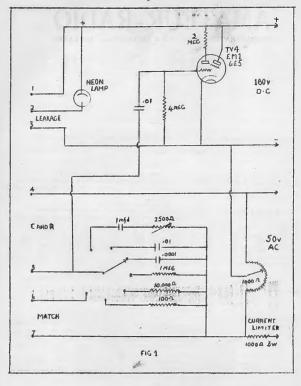
A scale can be easily made to represent the power factor on the panel of the finished instrument, but the scale for calibration of capacity and resistance (1000 ohm) is difficult to reproduce in practice and also here.

It is suggested that a search or junk stores will reveal an old tures inch knob with attacked metal pointer, or if preferable to the constructor, a FR CISION dial could be used, and the old calibration wiped off.

It is assumed you have been able to buy, or otherwise obtain good standards which are within a certain percentage ... this percentage will of course determine the accuracy of the bridge.

You are now ready to calibrate the scale. Some people are lucky and may be able to borrow a reliable decade which will help tremendously, but for those who cannot, it is suggested that light pencil marks be put on the scale for readings of sa v at least a dozen of the one particular type of resistor under test, and the mean or average be taken as a "reference" reading until some definite check can be obtained.

For capacity, quite a serious problem presents itself because very few standards are available to the average Cam, however if you are sure of your resista nce calibration, remember that capacitance is the reciprocal of resistance and mark your scale accordingly.



Power Factor Person'i	Resistance Ohms	I A
5	160	13
10	320	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
15	465	1
20	650	/ X Link
20 25	820	1 2 3 3
30	3.000 1 /	1/4
30 35	1390 1 /	/3 -21
40	1400	1
40 45	3630	\$10 .17
50	1630 1 7	80.26.70
55	2030	FIG3 E
60	2370	
FIG 2	1 9	SHORT

It will be noted in Fig 3 that the scale is set out logarithmically, that is the inde: number and nearer ones are separated by decreasing distances.

In use (the bridge part of the circuit) the unknown is connected between 4 and 5 and the switch arm moved to the desired range, the 1000 ohm potentiometer is then adjusted until the eye OEMS fully. If a resistor is being checked the eye will open fully with no furry edge-on the other hand a condensor will show (on the modulum and high ranges) of the r clean cut or increasingly furry edge, while bad condensers will be impossible to check unless they are within the range of the 1 mgd condenser and the 2500 variable resistor.

To give an instance --- an ignition condenser (across make and break) of an old car was giving trouble. On spoil action we could get no indication on the eye, but varying the power factor to the extreme randing claumed up the eye, so that there was no trace of "fur" -- the reading on the power factor califration was 55%.

Other uses of this piece of apparatus are as follows: -

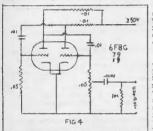
- Will indicate "balance" in RF transformer windings of large inductance, not less than 1 heavy, and smaller iron cores, using terminals 4 and 5.
- 2. Using terminals 1 am 2 neon lamp alone for external use.
- 3. Using torminals 2 and 3 leakage test for condensers and suspected faulty resistors. Another use, if it is suspected that variable condenser plates are toroning. Lisonmost the coll and lumns contenser across 2 and 5 -- sparts will indicate there plates are toroning.
- Terminals 2 and 4 or 7 will give a continuously variable 50 welt source of AC at a few milliamperes.

- With range selector on to "Match" a means is available to check or compare a given component with others.
- 6. Using terminals 6 and 3 the eye is available for indicating in AVC circuits, or if some means are available for calibration the eye can be used as a VTVM with 4 volt maximum reading -more in a later article -- with an input impedance of 4 megohms.

MULTI-VIBRATOR

This was originally written up in Amateur Radio for Pebruary 1940 and it has to be used to be appreciated, just like anything also.

Following is the circuit which again is quite simple and requires only one tube and a minimum number of components.



Wave form is something like a second took oscillator only more. The frequency of oscillation is determined by the combination of plate and grid resistors and condensers (time factor).

Whe usual fundamental frequency is approximately 500 c/s producing harmonics spaced every 500 cycles to approximately 20 megacycles (15 metres). Normally the individual peaks cannot be separated by the radio rocetiver, so a constant signal is hear from 500 cycles right through the operating range of the Multi-wibrator.

For Amateur uses the simple one in Fig. 4 can be applied to a number of uses, principally for finding faults in receivors and amplifiers. The output of the multivibrator whon applied direct to a speaker will give a useful signal and then by working be of stage by stage the faulty stage can be located. More exact uses will be covered later.

Much more elaborate Multivibrators have been designed and used with success as per ARRL Endebook, where they are used to pick off certain frequencies in conjunction with fired escillators to produce regular signals throughout the tuning range at 50 or 100 Ke sebaration.

If a number of readers are interested a future article will be prepared, setting out applications to these various uses.

POST WAR AMA LUR RADIO

ESSAY by P/O Tel. Sydney T. Clark

How many of us are wondering what will happen to the "Ham" in those, bound to be hectic, post-war years?

Even in New Guines the word has gone round that the Institute is running a competition and we game in this country of rain and things far harder to take, write to tell you of our hopes and our

fears.
I think Ama teurs should be granted privileges similar to those extended to us in pre-war days.

Yes "Mister Disher Outer" of frequencies and licences, haven't we earned them.

Those thousands of us who could, fighting in every clime, on land, on sea and in the air. Those hundreds left behind because of age or some other bar. They too have enrued that privilege. They helped build us the gear we use, they also, in their spare time, vorked hand in hand with the emergency services, diving their time and equipment, where suitable, freely, so that more efficient communications might assist in the fight for freedom.

Frequency allocations should be made in bands harmonically related and, although 1.75 M/cs will probably have to go, who cares? Has not ULF working already shown that it can fill the breach for local working.

The DX Bands what will become of them? That question haunts the mind of every Ham with a yen for DX and the friendships it brings.

As to power; will higher power make for more efficient communication? My answer is, Yes, if intolligently used. I suggest a power limit of 250 watts input to the final amplifier. Beginners should be limited to 50 watts for a period. An increase to 100 watts should be then allowed, and if that man uses his additional fifty watts intelligently, let him increase power to the limit.

Most certainly the Institute should have a permanent staff; but let that staff be the servants of the Institute and not the Members become servants of the staff, and the Institute a tool in their hands.

As to the question of having "all amateurs" members of the W.I.A. The very definition of an emateur procludes that possibility. Por is not an amateur one interested in "emperimental Radio." Therefore why should all amateurs be forced to join an organisation such as the W.I.A. before being granted a transmitting licence.

By all means encourage membership, but do not try to force it. For although I am a member of the Institute and will do all in my power to help it grow, I am a member voluntarily and therefore an enthusiastic member. If there was the slightest suspicion of

coercion, I should deny myself privileges to which I have a right as a citizen of the country which granted those some privileges rather than submit to coercion.

Amateur Radio can be and will be better organised in post-war

years than it was pro-war.

Yes, sowice and civilia n reserves should be maintained, and although they should, and I think shall have their own operating frequencies, it is the patriotic duty of all "imms" possible to belong to such bodies for nothing more than a square inch of quartz to ensure those frequencies are advored to.

Yes, lot the amateur give some of his time and the use of his gear in reserve exercises merely as repayment for a privilege

extended to him.

I think the national body of amateurs should act jointly with the licencing body in controlling amateur radio and disciplining any amateur where such action is necessary.

It has been proved time and again that co-operation can go places

faster than non-co-operation.

We have our hopes, and our fears for amateur radio in the post war years: I think that if we all co-operate the issue will be decided for us and undoubtedly in our favour.

STANDARD FREQUENCY TRANSMISSIONS.

The following information regarding sta ndard frequency transmations is taken from information provided by the Bureau of Standards, Washington.

The service comprises the broadcasting of standard frequencies at standard time intervals from the Bureau's radio station WWV. It is continuous at all times day and night, from 10 KW transmitters except on 2.5 MC where k KW is used. The sorvices include: (1) standard radio frequencies, (2) standard time intervals accurately synchronized with basic time signals, (3) standard audio frequencies, (4) standard musical pitch 440 c/s, corresponding to A above middle of. The standard frequency broadcast service makes widely available the national standard of frequency, which is of value in sciontific and other measurements requiring an accurate frequency. Any desired frequency may be measured in terms of any one of the standard frequencies, either audio or radio. This may be done by the aid of harmonics and beats, with one or more surillary escillators.

At least three radio carrier frequencies are on the air at all times, to ensure reliable coverage of the U.S. and other parts of the

world. The radio frequencies used are: -

2.5 MC broadcast from 2300 to 1300 GMT 5.0 MC broadcast continuously day and night.

15 MC " from 1100 to 2300 GMT.

Two standard audio frequencies, 440 c/s and 4 000 c/s are broadcast on the radio carrier frequencies. Both are broadcast contin-

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uously on 10 and 15 MC. Both are on the 5MC in the day-time, but only the 440 is on the 5MC from 7.00m to 7.00 am EMT. Only the 440 is on the 2.5 MC. In addition there is on all carrier frequences a pilse of 0.005 second duration which occurs at intervals of precisely one second. The pulse consists of five cycles, each of 0.001 second duration, and is heard as a faint tick when listening to the broadcast; it provides a useful standard of time interval for purposes of physical measurements, and may be used as an accurate time signal. On the 59th second of every minute the pulse is omitted.

The audio frequencies are interrupted precisely on the hour and each 5 minutes thereafter, after an interval of precisely one minute they are resumed. This one minute interval is provided in orderto give the station announcement and to afford an interval for the checking of radio frequency measurements free from the presence of the audio frequencies. The announcement is the station call letters WWY in code, except at the hour when a detailed announcement is given by voice. This also occurs at half hour periods.

The accuracy of the frequencies radio and audio, as transmitted is better than a part in 10,000,000. The time interval marked by the pulse every second is accurate to 0,00001 second. The I minute, Aminute, and 5 minute intervals, synchronized with the seconds pulses and marked by the beginning and ending of the periods when the audio frequencies are off, are source to a part in 10,000,000.

CORRESPONDENCE.

200 MX. BAN. P. IONIS:

.. By Chas. R. Whitelaw, VK3B: ..

After perusing the musings of 3N.K. and 370 in September, "AMATEUR RATIO" I feel I must have a few words to say, although 3WO says he does not want to start a commotion. As one who used the 200 mm band ever since it was allotted to us, I think we should still be allowed to do experimenting on this band. As for entertaining the BCL's, we most certainly did, and also kept the fact under the public notice that there were such experimenters as 3 N.K. and 3 W.Q. I think the 200 m: transmissions were cortainly the best publicity that hams got. Also as a member of the Institute since 1912, I never did at any time, offer the slightest suggestion, that this or that wave length, should be taken away from other hams, just because at that time I was not actively interested in that frequency. No, 3MK and 3WO, try and get more frequencies and more latitude, but NO, a thousand times NO, do not suggest that any of the ha re won privileges be sacrificed. I am sure none of the 200 mm hams would suggest that the 80 and 40 mm band be cut out.

I started experimenting in Radio in 1908, (No. I won't got out and give it up), and I still think there is plenty of experimenting to be done on all the allowed frequencies. I consider that most of the present engineers of the Broadcasting stations got their knowledge whilst operating 200 mr band stations. I found out some very interesting facts while "entertaining the B.C.Lis" and was well on the road to F.M. when the "big stouch" started. I cortainly did make my experiments so that "they would entertain the B.CLIs" and from what I heard, I succeeded, and hope again to do still some further experimenting on this band. If 3 M.K. and 3 WO think that this band should not be made available to the Institute, then let the Institute Councillors press for a special licence under special conditions, and a special fee of 55-5-0 be paid for the privilege, then we could see who gonuinely wanted to carry out experiments on this band.

I am fully in accord with all the rest of the letters of 3NK and 3Ve, but for the selec of Ham Radio, nover, no nover, throw up any of the hard fought for privileges granted to experimenters. Remember the oft repeated saying, "United we stand, livided we fall," and "Unity is Strength." The Authorities have been remarkably reasonable and fair to all experimenters, and I a'm quite sure that they vill continue to do so, provided there is to be no squabbles ever who should have this or that frequency. Pull together follow Hams, and held what we have, and got every Ham or prospective Nam into our ranks. Heres hoping that we shall soon get the clust off all that goar and that 3 NK and 3 VG get all they want and one day have something to say to 3 BH over the air.

CTAS. R. WHITELAW, V.K. - 3 B.H. Box 35, Post Office, ZUROA. VIG.

SLOUC. MATS and FORAGE CAPS.

Seems as though all the VK nams have gone into a kind of "hushmuch at all - however here does," to seem to have been anything happening much at all - however here does,

fits a rity all these chaps who get write-ups in the Frees couldn't have their call signs abred. What a boost to ham Raddo is wolf be. The folioider appeared recently, and in case you do not county is call sign is White- "Free latinguished Mying Gross has been awarded to adding Studyon Learer John a Beckett Pomloigh Boyd, of last Walvern (Vo) for brave conduct frying operations in the north-restorn area." The citation states hat Sous from Learer For lear the north-restorn area. The citation states hat Sous from Learer sowed he's formation of four aircraft on a long-range mission. On arrival at the target be led the formation over the aircrip, described in the state of the state of the county o

Sgt. Clarry Castle VESEL writes from Group 781 'earwin. le got a "loon' - sharel (see to it 'd.) of our Mag. from one Tur Procez - VEST. - last heard of as a 'O - and read that we manted nown. (I ask you - stall did you ever road this column and we rement what is called "ringing for news - at) Anylor Clarry's V " rowh is "hush - ush' so we skip it. .e has built a complete recording curtor soulpront e cept for cutting lead - and mante to know if anyone knows - ere he can purchase a "Presto" or similar job. Sis address is given above.

VY STY - ha's couple of service visitors furing the month - SEV - Tying Officer hen Surston who called in on his way to Adoletie. Len has move' ground a bit in his five years of service, being one of the lads fin got any from Singapore during the last for yours. More recontly he has seen service in the North where he has been Signals officer at an 0.3, (?? Operational Base?). Another visitor was LAC "allace SW - on leave from Her Guinea. Some of the has het are SEM Myling Officer Vilson, SEC W/O Loth Jones, 4TA M/O Ashlin. LAC Haguire SML and SMC Sgt. Chas. Welson.

"o ave just learner of the ceath on service of two VKS ams. V 31" - J. I. Menn of Sallarst was reported "Missing Sellewed Killed" view .W.A.S. Farrematta was sunt in Povember, 1941. His crotice Leonare Mann, 2nd op. at 37. his recently been disclaraged as medically unfit after several years as a "/T operator on the Surderlands with No. 10 Soua-ron R.A.A.P. Another Sallarst and Sirialwan S. T. Johns, VESSY was killed in settion in New Julious on Web. 1947. "/O Con Biscioff - VX ZIZ - is still up at Group 815 "ormsville appears to be quite satisfied "it. In job tiese days." Any Tame vio not Conis Weter Cruing the vealur in B ZIZ was even active will regret to lear of is suchen feat last June. Hr. Biscioff was as here a an really as even son ZIZ was. Con and family can be assured of the sympathy of all their familier friends.

Bill Mrone - VKZ.Z. has had a couple of letters reported by the cost, of Information - Laftering Post - as asymptheen weed over Entails Asia, First those 18th reports bimself in carpo of Tood STEAR and is stationed with the proposes on a small Part. The Letter stated electy enough and say treatment is 0.K and the main food is RHG 1

Squadron Leader Foughs STK - a friend of Bill's over in Malaya and via was with int in Saturas passed Strongs Swingy on his way some for a spot of lears after rules for the right Act which forward groups of the R.A.A.P. Sign. From memory For car we containly seems to are Gone more than but share of fromiscal corrue.

In lest morbhis column I sair 277 - 8/5%, Peter Vesper was "actile" at Ingloburn and this morth he writes formy eleas "messed to the first base" - 1.0. or - folk and Boddigal to go. eleas flagoness for the The colory in an electron of bard wire - colorwas, med fine processed black in an Lights - and I phase aloce that "orbited" - nich wirlinterial Coloreth - Peter - the aummer is NICC - I come from Griffith - hit - so I know.

Thior on B. Knock was also up in VK2 on a spot of leave, to dodge acon ming that 'liker' to says every 'heior chould have. But by now he is also morn her cat VL5 and on with the job. I e says 4A' dodged sthirtly could have a fit man once more and still my cir raid shelter waits, it

2/0 Bill Levis VNSYB/2/B also was in Sydney for a time and he too is moving Forth. Bill was lest statemen at Sile but by now less a now and which increasing Tuf. and too Saafar sure less of addy on a stying. All Still Bill looks protty fit and no foubt be likes it. Hill

I must now occasions great care as I speak of one Stevens 30% of Svan Mill...in the N.A.M.P, and more important a friend of the Magneton corritors. Welly to care mean curses and found the yf at a westing, and Pop struggling with the hide, the shop and the washing up, the tending the deafterwers. To was one of our most pleasurable visitors...as as more timest's it have no of our most pleasurable visitors...as as more timest's it have not of our most cally because I as hid having up were sho arrived home. The was fally should be a larger than the color formy can't say a thing, but I await some violent reactions from Swan Hill. Lit

"oll, the seeing you all no t month...I won't insult your memory with the "refrain" of the ORA...anymay you should must inside the back cover

FIVISIONAL HODES

MIT SOUT. WALLS IVISION

The September General Meeting of the livision was held, as usual, at Y.M.C.A. Buildings. Outs a number of visitors were present including Lieuteners J. Hizzire "A.M. Simper Grail, Goranning Cricer Sydney arbor Patrol Stitter "Gingott, Gwief Tireless Officer Sydney arbor Patrol Stan Grirmet VEZTY, Lt. Corran or Lionel Swain WIROS, Sergeant Mills WZZAJM and Pater Adems WEBJK.

Membors were informed that the Buarfares Emergency Radio Fetrork ran making satisfactory progress and that it and been fourfed to form Hets in three Country towns. At the time of mitting these sites and not yet been decided vaca. Haturally the Busriares Advisory Cormittee would have the final say in the matter of location. In formaring the circulus a considerable landless in to be evarcome in view of the fact that the 1855 list of "perimenters had to be used. If you know or any country member that cir not receive a circular, kindly get in touch with the Secretary of the [view.]

The Heeting was informed that Council Lad considered the best means of shoring appreciation of the dise sources rendered the Institute by Mr. Reg Pelfile VIZRA. ZIA, as you were informed in the last issue of the Mr mazine recently resigned as Charman of the Hew South Males ivision uring the past times years he ad occupied the positions of Permal President, Charman of the New South Males livision and had been a morber of the Vis.S. Wineless Councilles recommend then that he be elected to Line Membership winnamously endoused. Zit in replying, stated that he deeply appreenable the honor conforted upon him, and stated that his efforts in the past had been directed towards selffur arasecum Radio.

A funtier recommendation from Couroil that the sum of C2/2/s be constoc to the fund now being raised for the coulpping of a British Centre in Sylney, was unanimously endorsed.

Olf timers will regret to lea rm of the passing of Reg Fagan VMETA Low was one of the stalwarts of the Institute, and although school appearing at meetings due to his location, fid outte a deal to help in many ways. Interested in Kadio from the time of its inception, forking on 240, 80, 32 and 40 metre bands and in more recent days on 20 metre fone. One minutes silence was observed by the meeting in memory of ZRJ.

Skipper Small of the Sydney Yarbor Patrol, then addressed the meeting and gave details of the history of this fine organisation during the war years. Mr. Small who is the Commanding Officer went on to say that it was his ambition to build the patrol into an organisation similar to the Coastquard in the U.S. Skipper Small was followed by Skipper Teingott, Chief Wireless Officer, who made a n appeal for operators.

The Chairman, in summarising the remarks made by Messrs. Small and Weingott said that de leartly recommended that as many members

possible take advantage of Mr. Wearnottis offer. In pre-war days are thurs through the institute had long striven for recognition as a mins of providing everyone commitment on. The future was very read. The country arabous would have thoir mustines Not with a suburban experimenters, the Sydney arbor Pitrol. All this had been brought about by the operations of the Itergency Communication by their fine work had been responsible for demonstrating the value of imperimenters and their collimate, and the authorities had been quiet to grasp the opportunity of putting more and more equipment to your, any rember whe was not present and desires further information, may obtain same by ringing to Guairman at WK3305 or Th. Ray Teingott at 143765. ...C.N rembers the yould like to join up with the Patrol are remined that they can only do so on the understanding that Network practices come first.

At the present time these Fetworks are only functioning in VA2. Nothing yould give For South Wels'mon greater pleasure than to see them operating in all States.

Lt. Commandor Svain VISCS gave a vorw interesting account of life in the Tavy. Is remarks with reference to the Searding Party were very much appreciated particularly to references to "what uppoint with, the short hat objecting part is still on the ship! In als remarks Lionel paid a great that the closely in all all particularly depend on the lost that the paid a great that the design one by Mr. Allan Mainhall WERTS. Therbory who have the allants job is were astounded to learn that he ad placed has sevenes at the disposal of the Commonwealth entirely without recurrence 2016.

Muo', J. timularly those references made to emergency work as he was vory interested in that phase of amateur activity in the States.

The October General Meeting will be held at Y.K.C.A. Buildings on Thursday 19th October. Country Members, particularly those interests in the bushfires scheme, vio may happen to be in town, are particularly requested to note the date and be in attendance.

.....

TIT SY NIY . ARBOR PATROL.

The Sydney larbour Patrol (S.J.P.) enginelly The Volunteer Coastal Patrol (V.C.P.), was formed in March 1938 - this fact alone will come as a surprise to many. It was founded by amateur yachtsmen and supported by certain Naval officers for the purpose of the rining mun for service in small naval vessels such as M.T.Bis, M.G.Bis and other similar craft.

Then war broke out the Patrol was well established and soon attained a "emborsity of some six numberd men. After receiving training, many of these men joined the various Services, particularly the R.A.R., A.A.A.P. Earlie Beeting and A.I.P. Weter Transport Section.

Before and during the early part of the war, many men had enrolled who eventually found that because of medical grounds, essential employment or other reasons, they could not enlist in the services, and these men continued voluntarily to attend the Patrol's instructional courses in elementary navigation, signalling, first aid, chart work and higher navigation - all with the sole objective of being of some service to the Nation if required.

Up to June 1940 the Patrol's services had been called upon on many occasions to co-operate with the Army in beach landing exercises and mock enemy attacks on various parts of the M.S.V. coastline from Port Stephens to Lake Illawarra, and high commendations for these efforts were forthcoming from such men as Brigadier (now Major-Gen.) J. J. Murray and Major-General A. C. Meutrell.

In June 1940 the Patrol was requested by the N.S.W. Police .ept. to supply vessels and cress to perform security patrols every night of the week in the Port of Sydney. With this first official recognition the Unit's vessels were permitted to fly the N.S.W. State Blue 'nsign - an honour that is still retained.

In October 1942 the V.O.P. became Imorm, for official purposes, as the S. .. P. with the Marbour Master of the Port of Sydney as its directive head.

As the S.M.P. the Unit carries out duties for the Maritime Services Board of N.S."., N S.W. Police bept. and ept. of N.M.S.

Pive vessels are rostered for duty every night of the week between the hours of 6 p.m. and 6.30 a.m. the following morning. These vessels patrol that part of the Harbour, West of the Bridge, and, in doing so, contact the watchmen or guards at vulnerable points on the waterfront, and their crews are responsible for the protection of life and property thereon from sabotage, with particular attention being paid to the security of shipping and wharves in the Port. At the present time one of their most important futies is that of policing both the Army and Port regulations as they apply to ammunition ships - the importance of this cuty should be readily understood by all, in view of the tragic emplosions of ammunition ships in Bomba y, San Francisco and elsewhere.

In event of emergency Patrol vessels are also responsible for (1) the operation of oil retaining booms at petrol depots, (2) supplementing the manning of fire floats with trained personnel, (3) rescue and evacuation of injured from ships and warves, (4) general Police duties - suppression of pillaging, looting etc. In the performance of these duties man hours ave totalled 269, 067, miles travelled

121,355 and patrols carried out number 5,885.

It is intended that the Patrol should remain as an organised unit in the post war era, because it is felt, by both its own executive and certain Government officers, that it could continue to serve the community as a useful organisation,

As in every other Service, Communications are vital. Without an efficient system, the value of the Patrol to the community would be

considerably reduced.

The Patrol has a Radio system in operation using commercial type equipment and an appeal is now being made for operators, preference in all cases being given to holders of the A o.C.P. although this is not essential. There are two ways that you may enrol, firstly on a first open heads one night each week, or p.m. 6.30 a.m. one night per week. Any further information may be obtained from Mr. Ray Weingott LA.3765 or W. G. Ryan PX3505.

VICTORIAN DIVISION.

Council is gratified to announce that the co-operation scheme with the Morests Commission of Victoria, and this livision has advanced to the stage that subject to P.M.C. approval, emergency stations vill go into operation in four or five areas as soon as the necessary dotails can be finalised.

Some other areas from which Hams have replied to the recent circular cent out, will, it is hoped, also go into operation. It is probable that they will be delayed somewhat as at the moment the full amount of equipment cannot be arranged. With further answers to the circular coming to hand, arrangements will be made for the equipming of stations.

A notable visitor at the VES Meeting on Tuesda y night last, October Sid, was Wing Commander Cumingham VESUM. This was Bebts first meeting for some years, as most of his time has been spent away on active service. In addressing the meeting Beb expressed his stown on the subject of post-war planning, and his comments gave rice to a motion requesting Council to go more thoroughly into the metter of post-war activities. It is hoped that Ving Commander Cummingham's comments will be put into writing and published in the Magazine.

The next meeting of the Division will be 'held on Tuesday Hovember 7. Moetings of late have been very interesting as Mr. C. C. Quin VXXVO has and will be demonstrating test equipment.

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HAMS ON ACTIVE SERVICE

Write FRANK PETTIT. Catholic Club, Mustapha Barracks, Sidi Gaber, Egypt. or Phone:

> Alexandria 27315 (SUISG) or Ramleh 498 (SUIRD)

CHANGES OF ADDRESS

Members and Amateurs in general are reminded that the Radio Inspector should be advised of any change of address.

Also notify your Divisional Secretary.

HAMS ON SERVICE

Other hams are interested in your doings.

Drop a line occasionally to your
DIVISIONAL SECRETARY

J. CORBIN, VK2YC, 78 Maloney Street, EASTLAKES, N.S.W.

The Radio Society of Great Britain

A cordial invitation is extended to all

HAMS ON ACTIVE SERVICE

to visit the Society of

NEW RUSKIN HOUSE

28-30 LITTLE RUSSELL STREET,

LONDON, W.C.1.

TELEPHONE-HOLBORN 7373

THE WIRELESS INSTITUTE OF AUSTRALIA



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Visiting Overseas and Interstate Amateurs are welcome at meetings and they are invited to communicate with the Membership Secretories :

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The N.S.W. Division meets on the third Thursday of eoch month et Y.M.C.A. Buildings, Pitt St., Sydney and on invitation is occorded to all Amateurs to ottend. A special welcome awaits any Overseas or Interstate Amateur. If unable to attend, phone the Secretary at

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